What's Spoppin'?

Predicting Popularity of Spotify Tracks By Erin Vu



Overview



- 1. Business Problem
- 2. Data
- 3. Modeling Process
- 4. Model Results
- 5. Conclusion

Quality Over Quantity

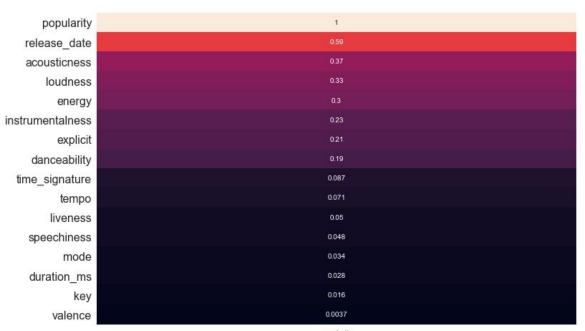
- Stakeholder: Music production companies and producers
- Dominate streaming/radio charts
- Creating popular songs
- Understanding popular song features
- Using best features to craft songs





Data

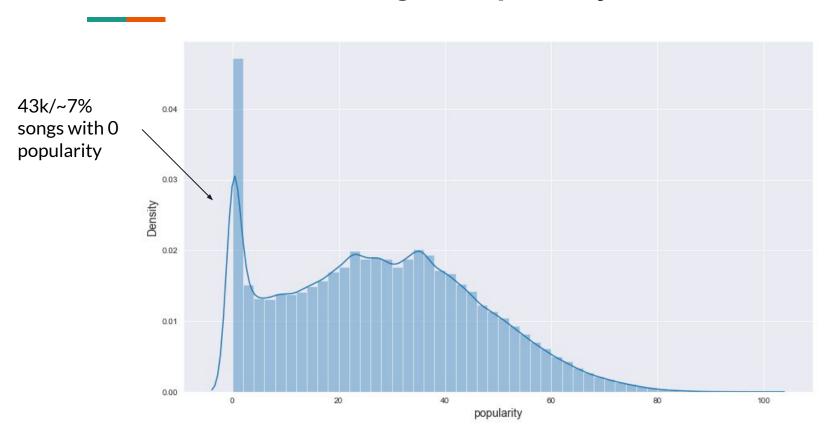
- Spotify Kaggle Dataset
- 1922-2021
- 600k songs
- 20 Features



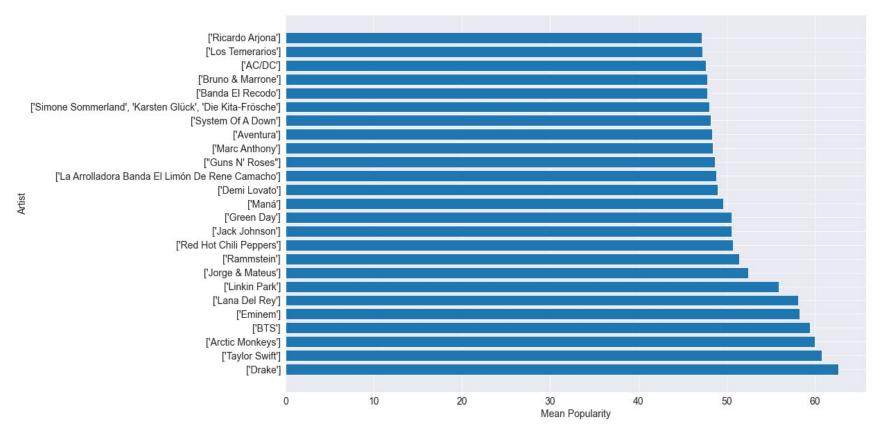
popularity

- 0.4

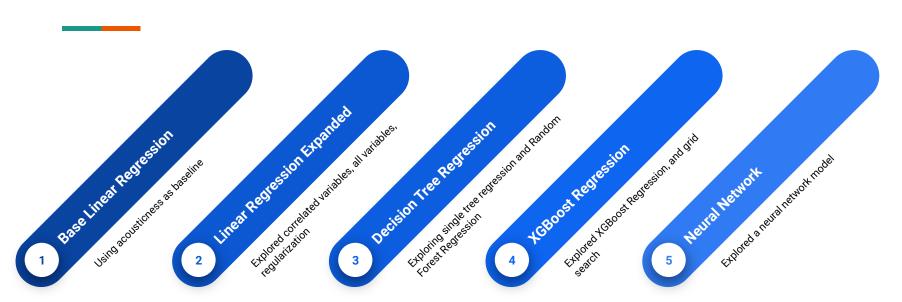
Target: Popularity



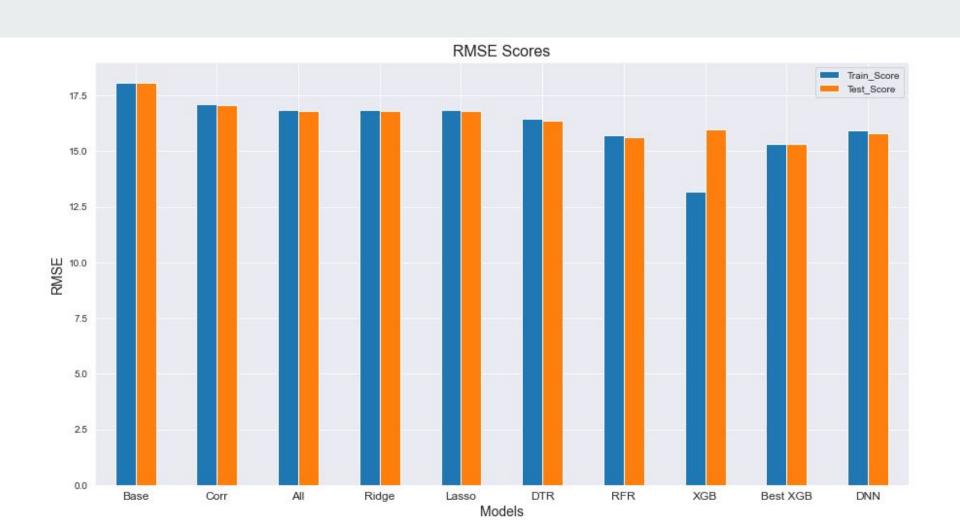
Top 25 Artists with > 100 Songs



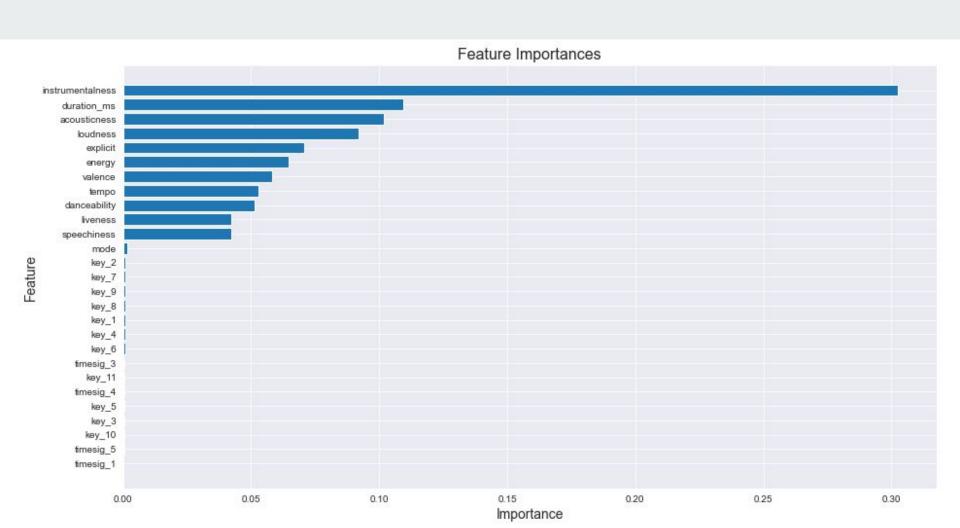
Models



Metric: RMSE (root mean squared error)







Conclusion and Next Steps

- Best Model: XGBoost Regression
- Recommend:
 - Have a good mix of vocals and instruments
 - Keep songs short

- Next Steps:
 - Continue optimizing
 - Different types of music
 - Model to predict within genres
 - Subset different time periods

Thank You!

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